UNIT PRICES

Approved For Release 2002/02/19: CIA-RDP86-00244R000200510003-6

Top U.S. firms compete_r Teton Dam

Seven competitors, including some of the largest U.S. construction firms, bid on the Bureau of Reclamation's Lower Teton Dam project in eastern Idaho.

A joint venture of Morrison-Knudsen Co., Inc. (M-K), Boise, Idaho, and Peter Kiewit Sons' Co., Omaha, is the apparent low bidder at \$39.5 million, slipping 13% under the second low joint venture of Dravo Corp., Bellevue, Wash., S.J. Groves & Sons, Minneapolis, and Granite Construction Co., Watsonville, Calif.

Work includes an earth and rockfill dam, power and pumping plant. The zoned embankment dam will be 3,050 ft long at the crest and 305 ft above the bed of Teton River. The power and pumping structure will accommodate three 10-mw generators and horizontal, centrifugal-type pumping units.

In addition, the project will include river outlet works, 42-in.-dia. pump discharge line, 72-in.-dia. feeder pipeline and spillway.

M-K-Kiewit gained substantially with its excavation bids. For the first 4.6 million cu yd of excavation in borrow areas A and B, its \$0.43-per-cu-yd bid plunged 49% under the second low's \$0.84-per-cu-yd price. And for ex-

300,000 150,000

310,000

45,000 1,700 170

cy 120,000 cy 2,700,000

cy 4,600,000 cy 2,400,000

31,400

10,900

630,000

Morrison-Knudsen Co., Inc., Boise, ID & Peter Klewit Sons, Co., Omaha, NB, a joint

venture ... 20 Crave Corp., Bellevue, WA, S. J. Groves & Sons, Minneapolis, MN & Granite Constr. Co., Watsonville, CA, a Joint venture ... 7 Perini Corp., Framingham, MA & Brown & Root, Inc., Houston, TX, a joint venture ... EE: Bureau of Reclamation, Denver, CO

Unit

ls

1C

Bids: 10/29/71 Items:

Mobilize & prep.
River divers & care, remove water from Indn.
Exc, dam embankmt fndn, above El 5040, first 300,000 cy.
over 300,000 cy.
bel El 5040, first 200,000 cy.
cver 420,000 cy.
Exc, open-cut, struct, first 310,000 cy.
cver 310,000 cy.
cver 310,000 cy.
cver 310,000 cy.
over 85,000 cy.
over 85,000 cy.

nrst 85,000 cy over 85,000 cy ever 85,000 cy exc, grout cap, 5' deep 5'-8' deep Exc, strip borrow pits, Area A & B.
Area C & extensn.

& stockpile.

Exc. In acea A & B.

& stockpile.... Exc, in area A & B, transport to dam embankmt, first 4,600,000 cy.... over 4,600,000 cy....

over 4,600,000 cy.

Exc, outlet wrk tunnet, intake struct shaft, gate
chamb & shaft.

aux tunnet, gate cham,
adit & shaft.

Tunnet & shaft.

Tunnel & shaft supprts,

Conc, aux tunnel lining...

cess excavation, 2.4-million cu yd, the winner halved the second low's bid.

Minimum wage rates include: laborer, \$4.33 to \$4.93; drill doctor, \$4.93; brakeman, \$5.24; tractor and shovel loader operator, \$6.18.

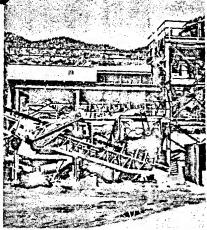
cy 4,800,000 cy 41,000

0.40 1.65

7.00

Earthfill dam embnkmt,

second low join		cy	41,000	1.65	7.00	
Corp., Bellevue	UAME CHIUKIIIL ZUNG Z	су	2,000,000	0.85	1.00	
& Sons, Min						
Construction Co.	aroc & place : ?	cy cy	220,000 330,000	0.43 0.65	0.12 0.90	
	Rockilli, dam embkmt,	су	790,000	0.09	0.80	The state of the s
earth and rockfil	Riprag		130,000 66,000	2.85 4.30	670 1.50	
nping plant. The	compact	сy	54,000	1,05	1.00	Coarse aggregate and comprete
dam will be 3,050		lf	39,000	4.30	4.20	Coarse aggregate and concrete Water Resources and Highway Kirst Construction Company's Installation. The unique estant Scalping Tank with Autospec classifiers, recirculating pump ing bin; plus three Eagle Was
d 305 ft above the		if If	23,000 20,000	4.50 4.70	4.20 4.20	Scalping Tank with Autospec classifiers, recirculating pump
The power and	160'-210' deep	lf if	13,000 5,800	4.90 5.00	4.25 4.75 4.75	ing bin; plus three Eagle Was
vill accommodate	210'-260' deep	if If	5,800 900	5.20 7.00	4.75	I I I I I I I I I I I I I I I I I I I
ors and horizontal ping units.	Pressure grout, cement sand,.	bbi	55,000 1,700	6.00 1 6.00	5.20 30.00	Plenty o
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india. pump dis	9"	H	5,400 140	8.50	11.00 15.00	but no b
a, feeder pipeline	12*	Ħ	150	11.00	20.00	Will iiu w
a. reeder prpenne	Reinf bars, #5 & less	bbi di	113,000 380,000	4.50 0.23	4.50 0.23	with Early S
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ander the second	shaft & hise above El	Cy		140.00	104.00	ruggedly constructe
price. And for ex-		Cy	390 770	1 65.00 40.00	114.00 54.00	,
price. And for ex-	walls stilling basin floor	cy cy	970 1,290	125.00 50.00	134.00 54.00	ary Sand Sections
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, Boise, ID &	canal outlet wrk contr		550	90.00	74.00	regardless of the be
aha, NB, a joint \$39,476,142	struc	су	000	70.00	, 480	certain sizes) that r
S. J. Groves & Granite Constr.	intake struc & gate chamb	су	770	50.00	114.00	run material. Only
t venture 45,424,396 //A & Brown &	pipe encasmt penstock encasmt	cy cy	1,170 775	40.00 80.00	54.00 74.00	low-maintenance r
joint venture 56,092,433 er, CO 35,999,272	river pipe & gate anchor	сý	2,200	40.00	74.00	capacity with precis
	plant substruct	су	4,800	65,00	74.00	That means added
Quan- Unit Price tity 1C 2	intermed struct spillway inlet struct,	сy	6,000	140.00	114.00	life, producing ma
job 3,000,000 3,000,000	floor cutoff & crest	cy	2,960	45.00 120.00	54.00 114.00	cost per ton.
Job 905,000 1,923,000	entrfortd walls & piers spillway chute floor, cut-					Only Eagle Water
	off & 60° pipe encasmt chute walls	CY	9,560 1,280	60.00 200.00	64.00 204.00	,
00,000 3.80 <i>5.</i> 50 50,000 2.90 3.00	spillway stilling basin floor cutoff & dentates	су	4,090	40.00	54.00	offer patented AU
20,000 0.85 1.75	walls	cy	1,735	90.00	94.00	DIALSPLIT® re-ble
30,000 0.69 1.00		ls Is	dol doj	120,000 33,000	1 65,000 60,000	plus rising curre
10,000 3.25 2.50	 Steel, power & pump plant 		340,000	0,58	0.57	product metering b
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85,000 1.50 0.50 45,000 1.50 0.35	control & whse struct.	sf sf	8,800 4,400	1.00	5.00	features. Only Eagl
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00,000 0.43 0.84	pump plant, cast iron soil	lb 1b	22,500 16,000	3.80 3.80	1.60	Write today fo
00,000 0.30 0.60	steel 2" & less w/valves		24	6.00 5.00	3.00 1.20	Catalog Sections E
31,400 37.00 30.00	21/2" & larger stainless steel	ib	400	23.00	22.00	& C. EAGLE IRON
10,900 58.00 45.00	Conduit, electr rigid met, embed or expose, 34"	lf	12,500	4.40	1.85	WORKS, Des Moines
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3,850 100,00 104.00 6,680 38.00 59.00	4"	lf lf	500 200	10.00 11.00	7.00 10.00	Trained Distributors
5,410 115.00 129.00 Approved For	Release 2002/0	2/i	9 . 6	Δ_ R ΠΩ	86-0024	Everywhere. 44R000200510003-6
Approved For	INCICASE ZUUZ/U	<i>Li</i> l	J . UI	~-KDF	00-0024	++1/000200310003-0



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of-way fencing. At right: Chain

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unsurpassed as

a glare guard.

Division of Anchor Post Products, Inc. Plants in Baltimore, Md.; Houston, Texas; Los Angeles, Calif.

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Unit Price

Completion time: Part 1 (excavation and stockpilling Borrow Area C and C extension) 425 calendar days Part 11 (power and pumping plant structures) 840 calendar days Part 111 (remainder of work) 1,800 calendar

days Liquidated damages: Parts I & II—\$750 per day Part III—\$1,500 per day

ENR Constr Cost Index (1913=100) U. S. 20-cities avg.—1644

Concrete beats out steel for subway tunnel under river

Over 12,000 ft of twin-tube subway tunnel to be driven under the Potomac River, between Washington, D.C., and Virginia will cost about \$2,100 per lin ft, including shafts and pumping station. The winning joint venture of J. F. Shea Co., Inc., Walnut, Calif.; Gordon H. Ball, Alexandria, Va.; and S&M Constructors, Inc., Philadelphia, bid \$23.4-million, 13.1% under the engineer's estimate for the winning alternate, cast-in-place concrete tunnel for sections 1 and 2. And it was 10.7% under the next lowest bid price, for steel segmented tunnel lining, submitted by a joint venture of S. J. Groves & Sons Co., Minneapolis, and Granite Construction Co., Watsonville, Calif.

Rock tunnel (section 3) accounts for 8,303 lin ft in this award of section C-4, Huntington Route, by the Washington Metropolitan Area Transit Authority. The rock will be mined, the tunnel ribbed with steel and lined with pumped concrete.

The other two tunnel sections will be conventionally cast-in-place concrete.

The two tunnel tubes have a 16-ft 8-in. ID and 19-ft 4-in. OD to pay line.

The winner priced concrete lining for section 1 at less than one-third the price bid by its closest competitor, which chose the steel segmented lining alter-R00020B\$10b03xgner's price was 39% higher for lining section 2.

(Continued on p. 90)